

AMENDMENTS TO THE CLAIMS

Claims 1-2. (Cancelled).

3. **(Currently Amended)** A method for obtaining bone cells comprising culturing (a) bone stem cell(s) ~~existing in~~ collected from a human amniotic mesenchymal cell layer in a bone cell-differentiation medium.

4 **(Currently Amended)** A method for osteogenesis comprising transplanting bone stem cells ~~existing in~~ collected from a human amniotic mesenchymal cell layer into (a) bone defect(s).

5. (Cancelled).

6. **(New)** A method for obtaining bone cells comprising,
collecting cells from a mesenchymal cell layer of human amnion,
separating cells expressing antigen SB-10 from the collected cells, and
culturing the cells expressing antigen SB-10 in a bone cell-differentiation medium,
thereby producing bone cells, wherein the bone cells do not express antigen SB-10.

7. **(New)** The method of claim 6, wherein the separating step is carried out using a monoclonal antibody to SB-10 in a flow cytometry system.

8. (New) The method of claim 6, wherein the bone cells further express alkaline phosphatase.

9. (New) A method for osteogenesis comprising, transplanting bone cells produced by the method of claim 6 into a bone defect.

10. (New) A method for osteogenesis comprising,
collecting cells from a mesenchymal cell layer of human amnion, and
transplanting the collected cells into a bone defect, wherein the collected cells
comprise stem cells and other amniotic cell types.

11. (New) The method of claim 10, wherein at least some of the collected cells express antigen SB-10.

12. (New) A method for osteogenesis comprising,
collecting cells from a mesenchymal cell layer of human amnion,
separating cells expressing antigen SB-10 from the collected cells, and
transplanting the separated cells into a bone defect.